## 1000 S45

The Daily Paper of the Submarine Branch

## Scientists Seek Wonder-Energy

## U.235 may change our lives



ARE these marvels coming: A submarines that need not surface for days or return to their depot for weeks? Jet-planes that will be able to fly over enemy territory for days without refuelling? Underground gardens, where sufficient food for the nation can be produced regardless of sunshine?

Fantastic? It is only two or three years since Pro-fessor Krasny-Ergen, of Stockholm, started to build the first experimental plant for the extraction of Uranium-235. Just to begin with, U-235 is an element containing a new and inexhaustible source of tremendous energy.

In peace-time it may make energy so cheaply that it won't be worth making a charge for it. Free, or dirt-cheap, light, heat and power for homes, trains, and ships are possibilities that you may live to see. Oy there Sailors! No need now to go to town like this

(See back page)



is water. This is not merely a probability. It is a known incredible, it is merely a cold fact.

The snag is that scientists working day and night on U.235.

Uranium was, until recently, the last and heaviest substance in the scale of known elements. It is derived from pitchblende, and in a ton of pitchblende there is some ten pounds of a special kind of uranium.

Concentrated and disposed in a particular manner—already known and understood—there emerges a small quantity of U.235.

Science has so asserted the probability. It is a known in fact.

The snag is that scientists to not yet know how to extract U.235 easily and cheaply from its parent metal, uranium. In experimenting with this long-sought practical source of atomic power they are still blundering in the dark. Uranium can be had by the lorry-load for about 5s. a pound.

Locked in the uranium lies U.235, and the best-known method of extraction at present is so slow that it would take the pounds.

Science has so asserted the probability. It is a known is probability. It is a known is

### Mark Priestley tells the story

of pound.

To speed it up would take millions of pounds, and no mation in the world could afford to build a factory for the process.

## Gramophones Smash

RAMOPHONE records are selling better than ever before, despite a shortage of raw materials. As well as new discs, second-hand copies of old and popular songs are in great demand. To try to cope that this new demand companies ask purchasers of new records to co-operate by returning an old disc when they go to buy a new one.

Old gramophone discs can be used for other recordings after being processed.

During the past few months ambitious plans have been formed, especially in the United States, for making the gramophone one of the essential pieces of furniture in the postwar home.

Recordings

Records

Other very popular artistes "on record" in Britain, especially among the fighting men, are Flanagan and Allen, Arthur Askey, Gracie Fields, Deanna Durbin and Bob Hope.

Gramophone records, too, have brought some dramatic moments into our homes.

The recording of a commentary of a dog-fight over the white cliffs of Dover sent a thrill around the world, and occupies a place of honour among many a collection.

Recordings exist, too, of many of the Prime Minister's most wonderful speeches.

This assures that generations to come will hear a

In step with the fulfilment of the Atlantic Charter will come an era of unparalleled richness and opportunities, backed by U.235.

With U.235, matter-of-fact physicists declare, cars will be able to travel without petrol and trains without coal. Ships will be able to use sea-water for power, and planes will need neither oil nor propel-

In the filmslest building, weather.

U.235 will be able to maintain a constant temperature, high or low.

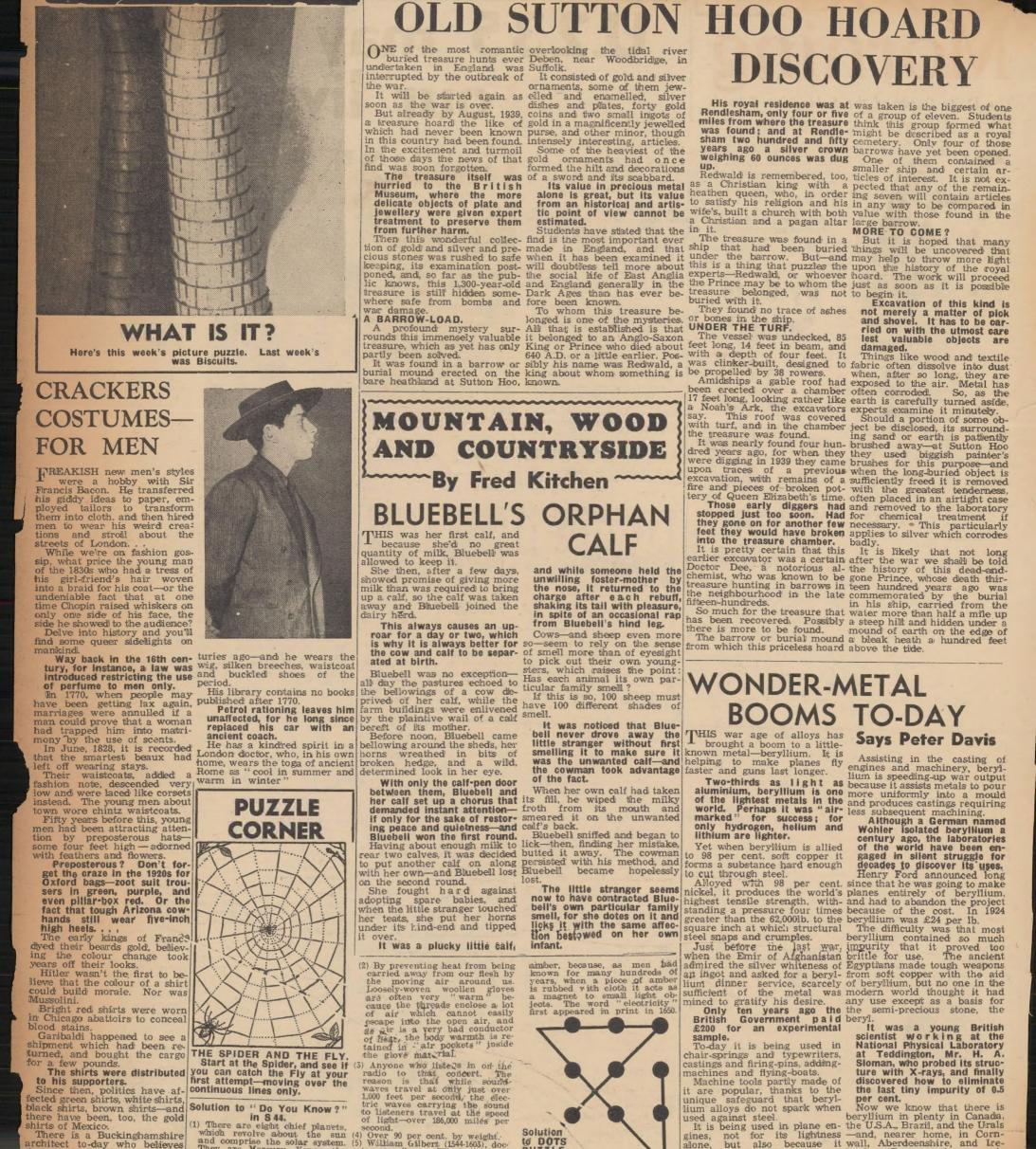
It may help to evolve new blazing with light, and planes

With AL MALE

with AL MALE

Other very consultar articles of one was mercal as a well as ere of the great demand. To try to ose of large, and the flat of the past o

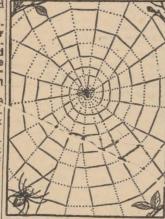
## SUNDAY FARE Richard Keverne Reports Romantic Treasure A



there have been, too, the gold shirts of Mexico.

There is a Buckinghamshire architect to-day who believes that the civilisation of art and dress reached its peak two cen-





in Chicago abattoirs to conceal blood stains.

Garibaldi happened to see a shipment which had been returned, and bought the cargo for a few pounds.

The shirts were distributed to his supporters.

Since then, politics have affected green shirts, white shirts, black shirts, brown shirts—and there have been, too, the gold in \$44.

Solution to "Do You Know?"
in 8 44.

(1) There are eight chief planets, which revolve about the sun and comprise the solar system. They are Mercury, Venus, the Earth, Mars, Jupiter, Saturn, Uranus and Neptune. second.
(4) Over 90 per cent. by weight.
(5) William Gilbert (1544-1603), doctor to Queen Elizabeth. He coined the word from "electron," the Greek name for

OLD SUTTON HOO HOARD

ONE of the most romantic overlooking the tidal river buried treasure hunts ever Deben, near Woodbridge, in undertaken in England was Suffolk.

It consisted of gold and silver the ways a sufficient of the ways and the ways are a sufficient or the ways and the ways are a sufficient or the ways and the ways are a sufficient or the ways and the ways are a sufficient or the ways are a sufficient

the glove mat. Tisl.

3) Anyone who listers in on the radio to that concert. The reason is that while sound-waves travel at only just over 1,000 feet per second, the electric waves carrying the sound to listeners travel at the speed of light—over 186,000 miles per second.

Over 90 per cent by weight.

# DISCOVERY Duried resaure number ever undertaken in England was Suffloik. Suffloik. Suffloik. Suffloik it consisted of gold and silver ornaments, some of them jew-dishes and plates, forty gold are assure hoard the like of a reasure hoard the like of which had never been known in this country had been found. In the excitement and turmoi of those days the news of that gold on a magnificently jewelled which had never been known in this country had been found. In the excitement and turmoi of those days the news of that gold on a magnificently jewelled which had never been known in this country had been found. In the excitement and turmoi of those days the news of that gold on a magnificently jewelled which had never been known in this country had been found. In the excitement and turmoi of those days the news of that gold on a magnificently jewelled which had never been known in the product of the sold on a magnificent jewelled which had never been known in the sound of the had the hitt and decorations of a sword and its scabbard. Then this wonderful collection of gold and silver and precious stones was rushed to safe it point stories and artist treatment to preserve them from further harm. Then this wonderful collection of gold and silver and precious stones was rushed to safe keeping, its examination post-poned, and, so far as the public knows, this 1,300-year-old the beautiful doubtless tell more about licknows, this 1,300-year-old the prince who doubtless tell more about when it has been examined it in the barrow and the prince was during the prince who do the prince who do the prince who do the prince who do the prince was at was taken is the biggest of one and two fishers drived which them the from where the treasure was at was taken is the biggest of one and two fishers drived which them where the treasure was at was taken is the biggest of one andlesham, only four or five or any or the remained was found in a silver crown barrows

British Government paid \$2200 for an experimental sample.

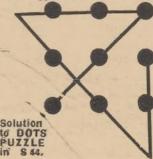
To-day it is being used in chair-springs and typewriters, castings and firing-pins, addingmachines and flying-boats.

Machine tools partly made of it are popular, thanks to the unique safeguard that beryllium alloys do not spark when used against steel.

It is being used in plane engines, not for its lightness alone, but also because it proves more efficient than a otherwise when heated.

To-day it is being used in the semf-precious stone, the beryll it was a young British scientist working at the National Physical Laboratory at Teddington, Mr. H. A. Sloman, who probed its structure with X-rays, and finally discovered how to eliminate the last tiny impurity of 0.5 per cent.

Now we know that there is beryllium in plenty in Canada, the U.S.A., Brazil, and the Urals —and, nearer home, in Cornado, the U.S.A., Brazil, and the Urals —and, nearer home, in Cornado, the U.S.A., Brazil, and the Urals —and, nearer home, in Cornado, the U.S.A., Brazil, and the Scientist working at the National Physical Laboratory at Teddington, Mr. H. A. Sloman, who probed its structure with X-rays, and finally discovered how to eliminate the last tiny impurity of 0.5 per cent.



### CK RYAN





























YES, AND HE INTENDS TO TAKE THAT

RABIES VIRUS TO AUSTRALIA - WHERE



AND THE AVERAGE BRITISHER DOESN'T KNOW THE DIFFERENCE BETWEEN A JAP AND A CHINAMAN. INDEED I'LL BET THAT OUR MAN IS BEING SLAPPED ON THE BACK AND TOASTED AS A GALLANT ALLY, NOW!



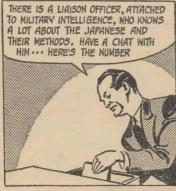


















HOW does one become a collector of postage stamps? Does it require a big initial outlay of money, a knowledge of stamps, and much time and study? Are there any pitfalls for the innocent? Is the whole stamp business a racket and best left alone?

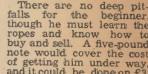
Working backwards on these questions (they are frequently asked), the stamp business is a racket only in the sense that medicine and the Stock Exchange are rackets.

Stock Exchange are rackets.

It is a perfectly honest activity, open at certain points to exploitation by the unscrupulous. But since, as I have pointed out before, the producers of a nation's postage stamps are the Government themselves, the chances for unfair dealing are fewer than in any other business.

There are no deep pitfalls for the beginner, though he must learn the ropes and know how to buy and sell. A five-pound note would cover the cost of getting him under way, and it could be done on £3. Time and study are no problems at all. Once the hobby gets hold of you, you lap up knowledge with such gusto as to forget what boredom is, and time just doesn't exist.

How does one start a collection? The answer



How does one start a collection? The answer used to be this: By purchasing a monster packet of stamps, an "ail the world" selection, and a "wholle world" album to mount them in. Im addition, a good catalogue, such as Stanley Gibbons Simplified, still published in war-time at 10s.

When your packet—containing, say, a thousand stamps or more—was sorted and mounted up, you'd see what spaces there were left to fill. Then the fun started. At the end of two or three years you'd find yourself with a collection of anything a bove 5,000 different items. many of them treasured because of the difficulty of the chase.

You recognised now

You recognised now that the collection had grown unwieldy. The whole world was too big a field, and you'd have to specialise.

You'd take one or two countries which had a strong appeal for you, perhaps as many as half-a-dozen, and get everything they'd ever issued. You'd even hope to pick up a few varieties, or "errors," those expensive plums of the game . . and maybe you'd get them for a song from someone who didn't know they were varieties!

You established yourself at this point as a fully-fledged philatelist and could safely be left to your devices.

That is what used to happen, and perhaps still does. But I think you can profit by others' experience and cut out any idea of making a big general collection. If you decide to collect only British Colonials—and these are the soundest investment — don't collect all the celonies. only Br soundest colonies.

I reckon that to accumulate all the issues of Great Britain, from the 1840 Penny Blacks up to the present day, but not including the great rarities would require an outlay of £10,000.

On the other hand, if your interests can't be harrowed down to a few countries, then collect only issues of the past thirty years.

In the case of British Colonials, you'd need to go back no further than George VI—these would include the Coronation stamps, a host of pictorials, and war-time printings and colour changes.



I have illustrated this column with three colonial stamps of high face-value, all issued in recent months. The purpose is to draw attention to the importance, when buying new sets, of including in your purchase the high values.

It's not a bit of good buying all values up to 1s. Better far to start at 2s. 6d. and get all values up to £1, or whatever the top value is. The high denominations pay the dividends.

The 10s. St. Paul stamp of Malta, issued in 1919-20, is now catalogued at £32.

## Good Morning

All communications to be addressed to: "Good Morning,"

Clo Press Division;

Admiralty,

London, S.W.I.

## All Awheel in Seven Styles

You know, fellows . . . the sport of cycling has always been fascinating to us. Believe it or not, but we always found it a subject for deep reflection.



Even from our earliest days we indulged. Bit of a crowd, of course, but then we didn't mind. Kid sister used to swoon with delight, until Paw forcibly reminded her that she wasn't in a sedan chair, and he'd be damned if he'd walk, anyway.



Time passed sister got kid snooty. Even offered to bet us she'd go from Hyde Park to the Bank on her new coaster. We knew she was getting uppish, though we had to admit she was reaching heights in the cycling world. She said she was "sitting pretty"... we had to agree on that, too. Curse the child.



But we never bet on a loser, and Joe (he's the youngest, and a policeman, and hates anything crooked) didn't see why we should change our tactics, so he kindly squared all his pals on point duty. What a traffic Jam! Even the bike was reduced to this, and when the darned thing read "Threadneedle Street"... boy, oh boy, it just couldn't "cotton on" to the idea. Vanishing down an open manhole, it was heard to murmur "I'm drained to the last drop."



Well, of course . . . what you have been reading is only a story, a fairy story . . . a fairy-cycle story, if you like. But what you are looking at now is a dream come true. Thanks to the efforts of the Raleigh Cycle Company, fifty submariners are able to enjoy the thrill of real cycling during their time ashore while attached to the Third Flotilla. Who knows, maybe YOU will be a lucky one at some future date; even if the date is not in the immediate future, the bikes will be O.K. They have been specially made for you chaps, by which we mean that the Raleigh Company have made it possible for you to have something they consider symbolic of their appreciation of the work of all submariners.



The climax? Well, if you must hear it. Kid sister was reduced to a mere shell and the local grocer's boy put her back into one of his crates. What does another one matter?" he sait. "though my yokes are heavy, I make light of my burden." "What's in the basket on the front?" we asked him. "Oh, just a few dried-egg sandwiches," he said. "No use a guy starving, even if eggs ARE scarce."



OUR GAT SIGNS OFF

"Raleigh
Round
Boys."